

## Patent Abstracts of Japan

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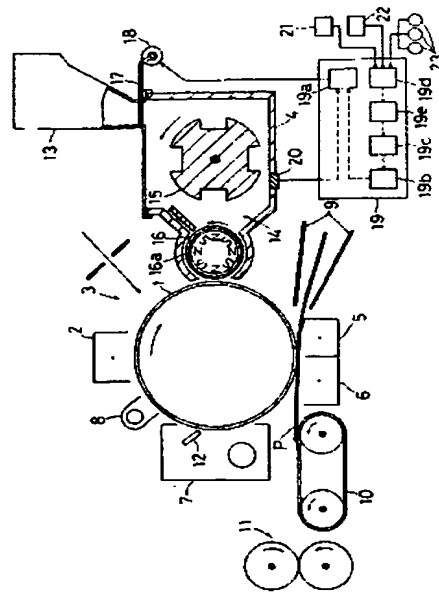
APPLICATION DATE : 21-01-88  
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APPLICANT : MINOLTA CAMERA CO LTD;

INVENTOR : SHIMIZU TAMOTSU;

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TITLE : AUTOMATIC TONER  
CONCENTRATION CONTROLLER FOR  
RECORDING DEVICE



ABSTRACT : PURPOSE: To prevent the lowering of image quality by appropriately adjusting target toner concentration at the time of actually recording so that it is matched with the recording state.

CONSTITUTION: The variation of an output value from a toner concentration detection means 20 which occurs only with the change of the electrification quantity of toner caused by the difference of a stirring time of every toner consumption rate is estimated from the toner consumption rate calculated by a toner consumption rate calculation means 19d. And the target value of the control of replenishing the toner, which is performed so that the toner concentration is made nearly constant, is previously altered so that the estimated variation of the output value of the toner concentration detection means 20 is diminished before starting the recording action. Thus, the appropriate replenishment of toner can be performed during the recording action regardless of the recording state where the unevenness of the density of a character and an image or the difference of recorded size exists. Thus, it can be evaded that the actual toner concentration is drastically deviated from the target, so that the image of good quality can be obtained.

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